Tecra A2 Series

Model	Description	Part Number	UPC
Tecra A2	Intel Pentium M Processor 715 (1.50GHz, 2MB L2 Cache, 400MHz FSB), 15.0" XGA, 256MB, 40GB (5400 RPM), Intel Extreme Graphics 2, DVD, Intel 802.11g ,Microsoft Windows XP Pro, 3-year Limited Warranty	PTA20U-02J00G	32017249103
Tecra A2-S336	Intel Pentium M Processor 715 (1.50GHz, 2MB L2 Cache, 400MHz FSB), 15.0" XGA, 512MB (512MBx1) 60GB (5400 RPM), Intel Extreme Graphics 2, DVD-CDRW, Intel 802.11g, Microsoft Windows XP Pro, 3-year Limited Warranty	PTA20U-02H01F	32017250802
Tecra A2-S4362	Intel Celeron M 330 (1.40GHz), 15.0" XGA, 256MB (256MBx1), 30GB (4200 RPM), Intel Extreme Graphics 2, DVD, Intel 802.11g, Microsoft Windows XP Pro, 3-year Limited Warranty	PTA20U-10E01F	032017253841

System Characteristics[1]

Operating System

- Microsoft® Windows XP Professional
- Microsoft Windows 2000 (Components only)

Intel® Centrino™ Mobile Technology featuring:

- Processor[2] and Chipset
- Choice of processors:
  - Intel Pentium® M processor 715 [1.50GHz, 2MB Leve; 2 ("L2") cache, 400MHz Front Side Bus ("FSB")],
  - Intel Pentium M processor 725 [1.60GHz, 2MB L2 cache, 400MHz FSB],
  - Intel Pentium M processor 735 [1.70GHz, 2MB L2 cache, 400MHz FSB],
  - Intel Pentium M processor 745 [1.80GHz, 2MB L2 cache, 400MHz FSB],
  - Intel Pentium M processor 755 [2.00GHz, 2MB L2 cache, 400MHz FSB],
- Intel 855GME system chipset
- Integrated Wi-Fi compliant wireless LAN – choice of Intel PRO\Wireless 802.11g or Intel PRO\Wireless 802.11b

Memory

- 256MB, 512MB, or 1024MB PC2700 DDR333 SDRAM 2.5V SODIMM Memory modules; configurable from 256MB to 2048MB

Mass Storage

Choice of Hard Disk Drives[3]:

- 80GB (5400 RPM), 60GB (4200 RPM), 60GB (5400 RPM), or 40GB (5400 RPM), [some select pre-configured system(s) may come with a 30GB (4200 RPM)] Enhanced IDE (ATA-5) hard disk drive; 9.5mm height; user removable

Choice of Optical Disk Drives:

- **Fixed Bay DVD-ROM**, 5.25" EIDE, 12.7mm height. Compatibility: CD-ROM (read), CD-R (read), CD-RW (read), DVD-ROM (read), DVD-R (read), DVD-RAM (read).
- **Fixed Bay DVD-ROM/CD-RW**, 5.25" EIDE, 12.7mm height. Compatibility: CD-ROM (read), CD-R (read), CD-RW (read/write), DVD-ROM (read), DVD-R (read), DVD-RW (read), DVD-RAM (read). Or,
- **Fixed Bay DVD Super Multi Drive**, 5.25" EIDE, 12.7mm height. Capability: CD-ROM (read), CD-R (read/write), CD-RW (read/write), DVD-ROM (read), DVD-R (read/write), DVD-RW (read/write), DVD+R (read/write), DVD+RW (read/write), DVD-RAM (read/write)

Optional Floppy Disk Drive

- External USB Floppy Drive, 3.5", 1.44MB

Display[4]

- 15.0" XGA TFT active-matrix LCD; internal display supports up to 16M colors at 1024 x 768 (XGA)
- Optional Build-To-Order: 15.0" SXGA+ TFT active-matrix LCD; internal display supports up to 16M colors at 1400 x 1050 (SXGA+)
- Brightness Control

Graphics

- Intel Extreme Graphics 2 (integrated video); 64MB of shared dynamic memory.
- External Color Support 16M Colors, Non-interlaced at:

640 x 480	16bit/32bit colors
800 x 600	16bit/32bit colors
1024 x 768	16bit/32bit colors
1280 x 800	16bit/32bit colors
1280 x 1024	16bit/32bit colors
1600 x 1200	16bit/32bit colors
1920 x 1440	16bit/32bit colors
2048 x 1536	16bit/32bit colors

Input Devices

- Keyboard**:** Full sized 85 keys with 12 function keys, 2.7mm key stroke, 6mm height; Dedicated Windows® & Application keys support; HotKey function
- Mouse: Toshiba Touch Pad
- Buttons: Toshiba Console, Presentation, and Zoom In/Out

Expandability

- 2 Expansion memory slots (including Main Memory)
- 1 PC Card slots support 1 Type II, PCMCIA R2.01, PC Card16, CardBus

Communications[5]

- Integrated V.92 modem
- Integrated 10/100Base-TX
- Choice of integrated Wi-Fi compliant wireless LAN available: Intel PRO\Wireless 802.11g, Intel PRO\Wireless Intel 802.11b; or Atheros 802.11a/g

Ports

- Parallel port
- Serial Port (Supported on Advanced Port Rep III only)
- RGB (monitor) port
- 2 Universal Serial Bus (USB) port (v2.0)
- 240 pin docking connector
- External Microphone jack
- Headphone jack
- RJ-45 LAN port
- RJ-11 modem port

Physical Description

- Dimensions (WxDxH Front/H Rear): 13.3" x 10.8" x 1.1/1.5"
- Weight[6]: 5.95-6.83lbs depending upon configuration
- LED Indicators: DC-In, Power, Primary Battery, Hard Drive, Wireless indicator, Caps Lock, Arrow Lock, Numeric Lock, Main Battery Charging Status, Sleep Suspend Mode.
- PC+ABS Case

Sound

- Sigmatel STAC9750TG Software Sound
- 16-bit stereo; Built-in stereo speakers, Built-in microphone
- Direct 3D Sound; DirectSound
- Sound Volume Control Dial

Power Supply

- 75W (15V 5A) Auto-sensing external AC Adapter, 100-240V / 50-60Hz input.

Battery[7]

- Choice of 6-cell (4400mAh) or 12-cell (8800mAh), rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Battery Life (Normal Mode): Up to 4 hours 2 minutes (6-cell battery) (measured by MobileMark™)

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Security
- Slot for cable lock; PC Card (by screw and cable lock), HDD, memory (by screw only); User Power-on password, HDD Password, Supervisor Password, Keyboard Lock (by HotKey), Screen Blank (by Hotkey), Screen Saver (by software).

BIOS
- ACPI v1.0B, VESA, DPMS, DDC, SM BIOS v2.3, PC BIOS v2.1 support

Software and Utilities
Toshiba Software and Utilities
- Toshiba ConfigFree™
- Toshiba Custom Utilities
- Electronic User's Guide

Third-party
- Microsoft Office OneNote®
- Microsoft Works with Small Business Office XP 2003 Trial Version (on select models)
- Norton® AntiVirus (on select models)
- AT&T Software[8] (3-month trail version on select models)
- ArcSoft® Showbiz® 1.3 (Trial Version)
- America Online Software[9] (6-month trial version on select models)

Limited Warranty
- Select Models may have either standard limited warranty of:
  - 3 year parts and labor; 1 year battery, or
  - 1 year parts, labor, and battery

SelectServ® Limited Warranty Upgrades & Extensions
Models with 3 Year Standard Limited Warranty

SWP-PQGQ3V	3 Year SystemGuard
SWP-PQQX3V	3 Year Depot Express
SWP-PQQN3V	3 Year Bus. On-Site Repair, Next Bus. Day Response
SWP-PQGX3V	3 Year SystemGuard & Depot Express
SWP-PQGN3V	3 Year SystemGuard, Bus. On-Site Repair, Next Bus. Day Response

Models with 1 Year Standard Limited Warranty

SWP-PEQQ3V	Limited Warranty Extension to 3 Years
SWP-PEQX3V	3 Year Depot Express + Limited Warranty Extension
SWP-PEGQ3V	3 Year SystemGuard + Limited Warranty Extension
SWP-PEQN3V	3 Year Business On-Site Repair, Next Business Day Response + Limited Warranty Extension
SWP-PEGX3V	3 Year SystemGuard & Depot Express + Limited Warranty Extension
SWP-PEGN3V	3 Year SystemGuard, Business On-Site Repair & Next Business Day Response + Limited Warranty Extension

Accessories
For additional and most update accessories, please visit www.accessories.toshiba.com.

Power

PA3283U-2ACA	Toshiba 75W Global AC Adapter
PA3356U-1BRS	Toshiba Primary Li Ion Battery Pack (6 Cell)
PA3357U-1BRL	Toshiba Primary Li Ion High Capacity Battery Pack (12 Cell)
PA3091U-1CHG	Toshiba Battery Charger w/Integrated AC Adapter

Memory Upgrades & SD Memory Options

KTT3311/256	Kingston PC2100/PC2700, 256MB DDR
KTT3311/512	Kingston PC2100/PC2700, 512MB DDR
KTT3311/1G	Kingston PC2100/PC2700, 1GB DDR

Storage & Backup

HDD1232CZP41002	Toshiba 5GB Type II PC Card HDD w/Back-up software
UABS2-60.0	CMS ABSplus 60GB USB 2.0 Auto Backup Syst
UABS2-80.0	CMS ABSplus 80GB USB 2.0 Auto Backup Syst

Cases & Security

PS1335U-1NCS	Toshiba Ambassador Leather Case
PA1360U-1NCS	Toshiba Nylon Case (15.4")
PA1362U-1NCS	Toshiba BackPack (15.4")
NWDEFCL	Targus Noteworthy DEFCON CL Cable Lock

Input & Miscellaneous

PA1336U-1NKB	Toshiba USB Keyboard
PA1337U-1NMS	Toshiba USB Optical Scroller Mouse
PA1367U-1NMS	Toshiba USB Ultra-Mini Retractable Scroller Mouse
PA1368U-1NHB	Toshiba USB 2.0 mini 4-Port Hub (w/AC adapter)
PA1370U-1ETC	Toshiba Keyboard Skin Protector (Tecra/Satellite)

Expansion

PA3109U-1FDD	Toshiba USB Floppy Disk Kit
PA3314U-1PRP	Toshiba Advanced Port Replicator III

Return Policy
TAIS does not accept the return of component parts, or bundled software, which have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

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BAPCo® MobileMark™ 2002

These models achieved the battery life times shown using Business Applications Performance Corporation (“BAPCo”) MobileMark 2002. BAPCo does not make any representations or warranties as to the results of the tests. All products used in the tests were shipping versions available to the general public. The battery life results were achieved running the BAPCo MobileMark 2002 on the following system parameters. System parameters were set according to BAPCo’s recommendations.

Config 1	Intel Celeron M 1.4GHz, 15"SXGA+, 1024MB+1024MB, 80GB(5400rpm), DVD Super Multi-drive, 802.11a/g
Config 2	Intel Pentium M Processor 1.5GHz, 14"XGA, 256MB+0MB, 40GB(4200rpm), CD-ROM
Config 3	Intel Pentium M Processor 1.6GHz, 15"XGA, 256MB+256MB, 60GB(4200rpm), CD-RW/DVD, 802.11g
Config 4	Intel Pentium M Processor 1.5GHz, 15"XGA, 256MB+256MB, 60GB(4200rpm), CD-RW/DVD, 802.11g
Config 5	Intel Pentium M Processor 745 (1.8GHz 2MB L2 Cache, 400MHz FSB), 15"SXGA+, 1024MB+1024MB, 80GB(5400rpm), DVD Super Multi-drive, 802.11a/g
Config 6	Intel Celeron M 1.5GHz, 15"SXGA+, 1024MB+1024MB, 80GB(5400rpm), DVD Super Multi-drive, 802.11a/g
Config 7	Intel Pentium M Processor 735 (1.7GHz, 2MB L2 Cache, 400MHz FSB), 15"XGA, 256MB+256MB, 60GB(4200rpm), CD-RW/DVD, 802.11g

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Configuration		Config 1	Config 2	Config 3	Config 4	Config 5	Config 6	Config 7
Performance Rating		149	154	160	149	212	160	189
Average Response time		1.32 seconds	1.28 seconds	1.23 seconds	1.32 seconds	0.93 seconds	1.23 seconds	1.04 seconds
Battery Rating		2:55	4:02	3:45	3:54	3:13	2:45	3:41
Workload		productivity	productivity	productivity	productivity	productivity	productivity	productivity
Benchmark Version		MobileMark 2002 Version 1.0, Patch 2	MobileMark 2002 Version 1.0, Patch 2	MobileMark 2002 Version 1.0, Patch 2	MobileMark 2002 Version 1.0, Patch 2	MobileMark 2002 Version 1.0, Patch 2	MobileMark 2002 Version 1.0, Patch 2	MobileMark 2002 Version 1.0, Patch 2
OS		WindowsXP Professional	WindowsXP Professional	WindowsXP Professional	WindowsXP Professional	WindowsXP Professional	WindowsXP Professional	WindowsXP Professional
CPU		Intel Celeron M 1.4GHz	Intel Pentium M 1.5GHz	Intel Pentium M 1.6GHz	Intel Pentium M 1.5GHz	Intel Pentium M 745	Intel Celeron M 1.5GHz	Intel Pentium M 735
Processor Frequency / Bus Speed / L2 Cashe Size		1.40GHz / 400MHz / 512KB	1.50GHz / 400MHz / 1MB	1.60 GHz / 400MHz / 1MB	1.50GHz / 400MHz / 1MB	1.80GHz / 400MHz / 2MB	1.50GHz / 400MHz / 512KB	1.70GHz / 400MHz / 2MB
Memory (RAM)		1024MB+1024MB	256MB+0MB	256MB+256MB	256MB+256MB	1024MB+1024MB	1024MB+1024MB	256MB+256MB
Disk	Size(Rotasion speed)	80GB (5400rpm)	30GB (4200rpm)	60GB (4200rpm)	60GB (4200rpm)	80GB (5400rpm)	80GB (5400rpm)	60GB (4200rpm)
	Vender/Model name	TOSHIBA / MK8026GAX	HITACHI / IC25N030ATMR04	TOSHIBA / /MK6021GAB	TOSHIBA / /MK6021GAB	TOSHIBA / MK8026GAX	TOSHIBA / MK8026GAX	TOSHIBA / /MK6021GAB
Video/Resolution	Card	Intel(R) 82852/82855 GM/GME Graphics Controller	Intel(R) 82852/82855 GM/GME Graphics Controller	Intel(R) 82852/82855 GM/GME Graphics Controller	Intel(R) 82852/82855 GM/GME Graphics Controller	Intel(R) 82852/82855 GM/GME Graphics Controller	Intel(R) 82852/82855 GM/GME Graphics Controller	Intel(R) 82852/82855 GM/GME Graphics Controller
	Resolution	1050x1400x16	768x1024x16	768x1024x16	768x1024x16	1050x1400x16	1050x1400x16	768x1024x16
	Total local vedeo memory	64MB, Shared with main memory	64MB, Shared with main memory	64MB, Shared with main memory	64MB, Shared with main memory	64MB, Shared with main memory	64MB, Shared with main memory	64MB, Shared with main memory
Battery Information	Tecnology type	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion
	Battery Capacity	4400mAh	4400mAh	4400mAh	4400mAh	4400mAh	4400mAh	4400mAh
	Battery Voltage	10.8V	10.8V / 10.8V	10.8V / 10.8V	10.8V / 10.8V	10.8V	10.8V	10.8V / 10.8V
Power Information	CPU Power Manegement Mode	None (Automatic)	None (Automatic)	None (Automatic)	None (Automatic)	None (Automatic)	None (Automatic)	None (Automatic)
	Power surce	Battery	Battery	Battery	Battery	Battery	Battery	Battery
User Information	Power manegement software outside OS	w/ TOSHIBA Power Saver v7	w/ TOSHIBA Power Saver v7	w/ TOSHIBA Power Saver v7	w/ TOSHIBA Power Saver v7	w/ TOSHIBA Power Saver v7	w/ TOSHIBA Power Saver v7	w/ TOSHIBA Power Saver v7
	Audio system	enabled	enabled	enabled	enabled	enabled	enabled	enabled
	Speaker volume level	medium	medium	medium	medium	medium	medium	medium
	USB system	enabled	enabled	enabled	enabled	enabled	enabled	enabled
	Screen brightness level	80 nits	80 nits	80 nits	80 nits	80 nits	80 nits	80 nits
MobileMark Rating on each battery configuration								
8800mAh	Performance Rating	158	154	161	150	214	163	188
	Battery Rating	5:45	8:17	7:37	7:35	6:37	5:33	7:19

				Full Power	High Power	Normal	Long Life	MobileMark2002 (for Pentium-M)	MobileMark2002 (for Celeron-M)
Basic Setup	Power Usage settings	Screen brigthness		Level 8 (fixed by default - indipendent on the rest of a charged battery)	Level 4 (fixed by default - indipendent on the rest of a charged battery)	Change dependent on the rest of a charged battery	Level 1 (fixed by default - indipendent on the rest of a charged battery)	Level 4 (60-70cd) (fixed by default - indipendent on the rest of a charged battery)	Level 4 (60-70cd) (fixed by default - indipendent on the rest of a charged battery)
			100%-75%	-	-	Level 4	-	-	-
			74%-50%	-	-	Level 4	-	-	-
			49%-25%	-	-	Level 2	-	-	-
			24%-0%	-	-	Level 2	-	-	-
		CPU control method		Fixed	Fixed	Automatic	Fixed	Automatic	-
		Processor speed		Level Max	Level 8	Level 3 - 8	Level 3	Level 3 - Max	Level Max
		Cooling Method		Maximum Performance	Maximum Performance	Maximum Performance	Battery Optimized	Maximum Performance	Maximum Performance
	Power Down settings	Monitor Power OFF		10 minutes	5 minutes	3 minutes	1 minutes	Disable	Disable
		HDD Power OFF		10 minutes	5 minutes	3 minutes	1 minutes	3 minutes	3 minutes
		System standby		15 minutes	10 minutes	5 minutes	5 minutes	Disable	Disable
		System hibernation		Disable	Disable	Disable	Disable	Disable	Disable
Setup Action	Manual Setup	When I press the power button		Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
		When I close the lid		Hibernation	Hibernation	Hibernation	Hibernation	Hibernation	Hibernation
		Prompt for password when resuming from Standby or Hibernation		Disable	Disable	Disable	Disable	Disable	Disable
	Setup Alarm	Low Battrey Alarm Action		Enable	Enable	Enable	Enable	Dissable	Dissable
			Alarm level	10%	10%	10%	10%	-	-
			Notification method	Messeage	Messeage	Messeage	Messeage	-	-
			Action after alarm	No Action	No Action	No Action	No Action	-	-
			Run program	Disable	Disable	Disable	Disable	-	-
		Critical Battrey Alarm Action		Enable	Enable	Enable	Enable	Disable	Disable
			Alarm level	2%	2%	2%	2%	-	-
			Notification method	Messeage	Messeage	Messeage	Messeage	-	-
			Action after alarm	Hibernation	Hibernation	Hibernation	Hibernation	-	-
			Run program	Disable	Disable	Disable	Disable	-	-
Sound				SigmaTel Audio	SigmaTel Audio	SigmaTel Audio	SigmaTel Audio	SigmaTel Audio	SigmaTel Audio
	Power save setting		Instant Power Save	Enable	Enable	Enable	Enable	Enable	Enable
			Timer Settings	5 (Seconds)	5 (Seconds)	5 (Seconds)	5 (Seconds)	5 (Seconds)	5 (Seconds)
Wireless Network	Wireless Communication Switch			Off	Off	Off	Off	Off	Off
Display	Graphics Controller			Intel 82852/82855 GM/GME Graphics Controller	Intel 82852/82855 GM/GME Graphics Controller	Intel 82852/82855 GM/GME Graphics Controller	Intel 82852/82855 GM/GME Graphics Controller	Intel 82852/82855 GM/GME Graphics Controller	Intel 82852/82855 GM/GME Graphics Controller
	Power save setting		Nothing	-	-	-	-	-	-

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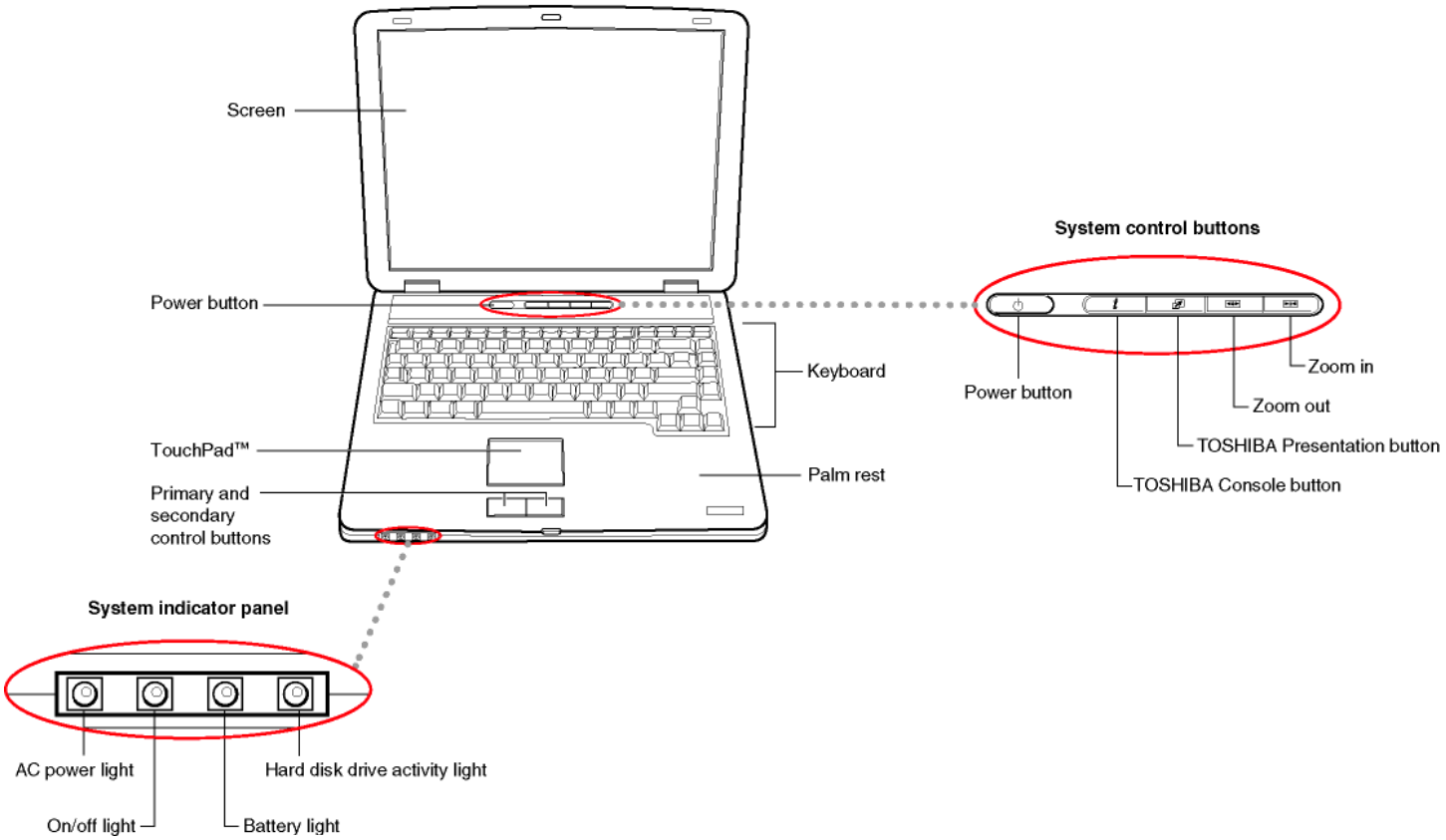
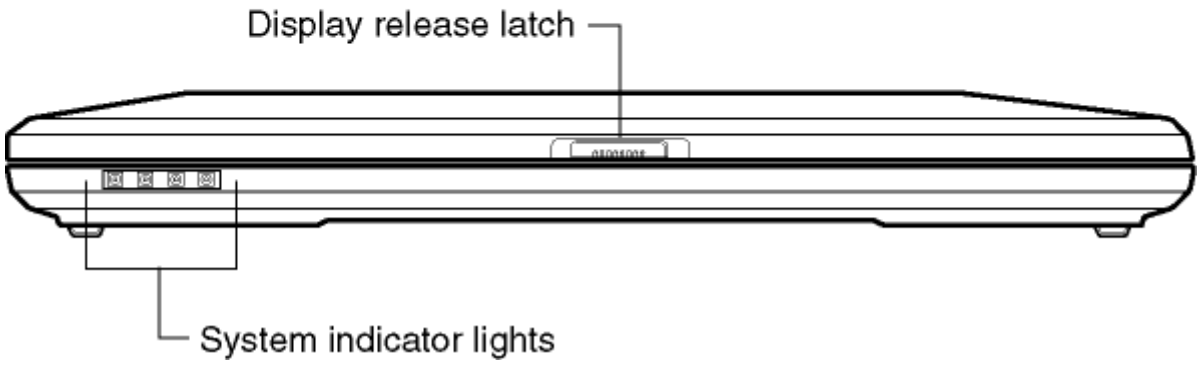
Drawings

Front with display open



Front with display closed



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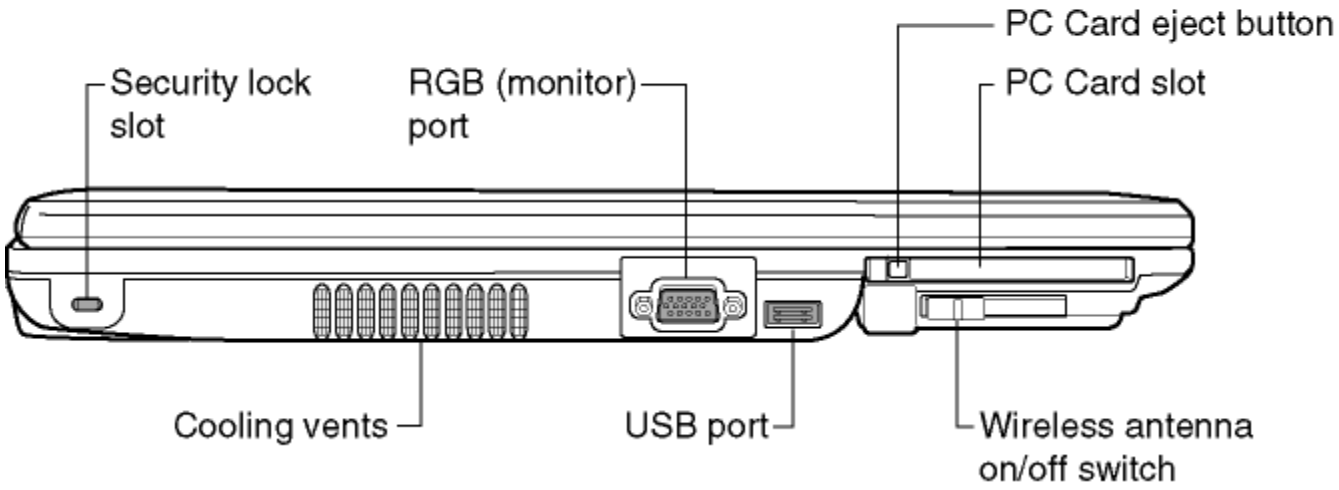
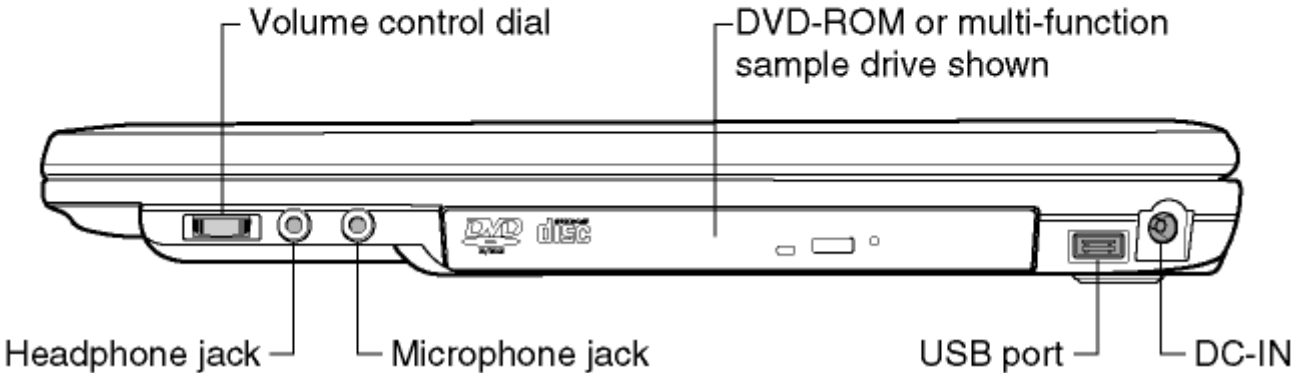
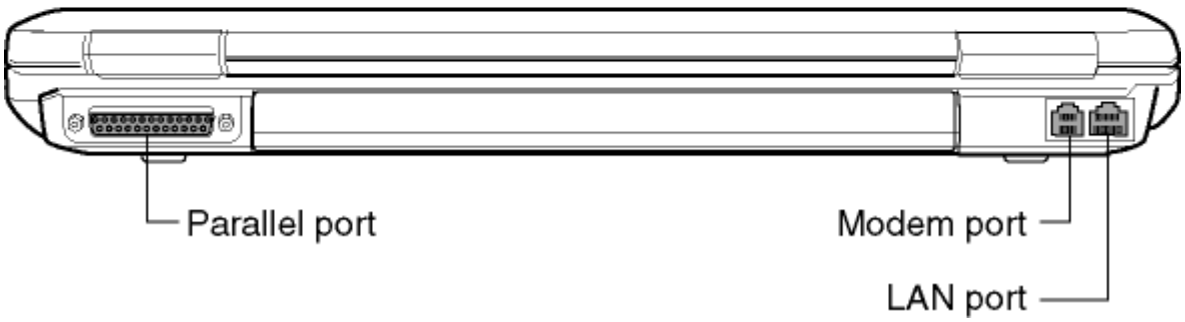
Left side



Right side



Back



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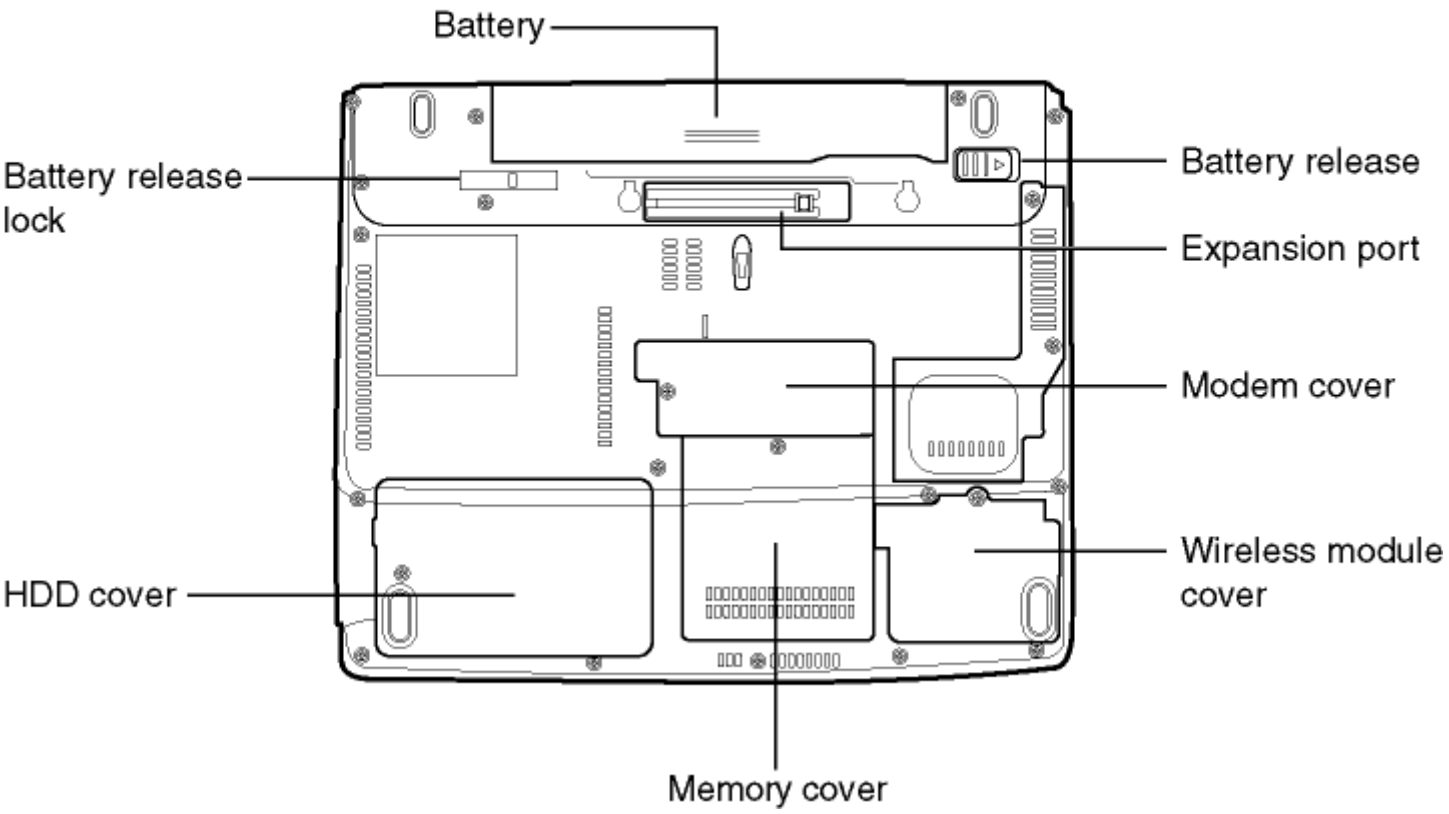
Underside



[1] **Subject to Change; Product Series Disclaimer.**

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[2] **Central Processing Unit ("CPU") Performance Disclaimer.**

CPU performance in your computer product may vary from specifications under the following conditions:

- use of certain external peripheral products
- use of battery power instead of AC power
- use of certain multimedia games or videos with special effects
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86° F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please refer to your Resource Guide or visit the Toshiba website at www.pcsupport.toshiba.com for details).

CPU performance may also vary from specifications due to design configuration.
Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product Resource Guide. Contact Toshiba Technical Service and Support for more information.

[3] **Hard Drive Capacity Disclaimer.**

1 Gigabyte (GB) means 1000 x 1000 x 1000 = 1,000,000,000 bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 1024 x 1024 x 1024 = 1,073,741,824 bytes, and therefore may show less storage capacity. Available storage capacity will also be less if the product includes pre-installed operating system and/or application software. Actual formatted capacity may vary.

[4] **TFT Disclaimer.**

Small bright dots may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology.

[5] **FCC Modem Speed Disclaimer.**

Due to FCC limitations, speeds of 53 kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.

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Wireless or Connectivity Claims.

Wireless connectivity is subject to availability of access points. You might have to purchase additional software, hardware and/or services or pay for phone charges and air time, etc. to achieve the functionality as advertised.

[6] Weight Disclaimer

Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

[7] BAPCo® MobileMark Battery Life Data Disclaimer

Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at accessoryfinder.toshiba.com.

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[8] AT&T Offer Details:

Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply – even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan – even during promotional period. Available to new AT&T members in the United States, age 18 or older; a major credit card or checking account is required.

[9] America Online ("AOL") Offer Details

Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply, including AK, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required.

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